



TRx3010A

TRx3018A

TRx



The TRx3010A and TRx3018A are active 2500W, X-Drive™ DSP processed subwoofer systems with an additional amplifier output to power external cabinets. The TRx3010A uses dual long-excursion TSUB10 woofers with 2.5-inch voice coils. The TRx3018A uses a cast frame TS18B woofer with a 23mm, inside/outside wound, 4-inch voice coil. Optimized presets for several Carvin cabinets are factory programmed for simple connect, select and play.

ACTIVE 2500W SYSTEM

The 2500W active X-Drive™ DSP processed module provides a 1500W bridged amplifier for the internal woofers and an additional 1000W amplifier output for external main cabinets. The internal X-Drive™ DSP processing maximizes performance output and protection using up to 48dB/oct crossover filters, parametric EQ, alignment delay and limiters. Turn on the Enhanced Bass and the ultra low end will come alive, lowering the cabinet's frequency range by another 15Hz and boosting the 35-50Hz response. The DSP will control the output to keep this added response within the limits of the speaker.

CONNECT, SELECT AND PLAY

The external amplifier output is ideal for powering two TRx3903's for a full range TRC-A system or up to two TRx2115's, TRx3210's, TRx12N's, SCx1115's or any top main cabinets down to 4 ohm. The internal X-Drive™ DSP has been set up to maximize performance output of the preset Carvin cabinets. Don't have a Carvin main or not finding your cabinet? Simply go to the "Variable X-Over" preset, select the crossover frequency and you are ready to go. Don't need to power a top cabinet? Go to the "Sub only" preset, select the crossover frequency for the sub and you are ready to go.

CORNERSTONE OF THE TRC-A COLUMN SYSTEMS

The TRC-A (active) column systems are compact powerful live sound systems, with the TRx3010A or TRx3018A as the cornerstone for system amplification and DSP processing. The TRx3903 columns complete the system's mid to high frequency coverage to produce wide and clear sound reinforcement. Each TRx3010A or TRx3018A can drive two TRx3903 column elements. The internal X-Drive™ DSP processor maximizes performance output, so all you need to do is select the TRx3903 preset, plug in the speakers and play. These systems are small enough to fit in a midsize hatchback, but large enough to fill a large banquet hall with a full band.

FLEXIBLE AND FAST SYSTEM SETUP

The TRx3010A and TRx3018A feature foot locating holes on top for stacking another TRx3010A (or) TRx3018A, and allow stacking up to 4 TRx3210 line array elements without hardware. The TRx3010A can be used flat, or on it's side for a smaller footprint. The top or side TRx3010A pole mounts and center TRx3018A pole mount can suspend two stacked TRx3903's or any standard 1-3/8th pole mount equipped cabinet. Two additional pole mounts on the TRx3018A match the 16" spaced dual pole system for suspending two TRx3210's, or allow mounting two speakers side by side for wider coverage.

RECEIVING INSPECTION—read before getting started

INSPECT YOUR UNIT FOR DAMAGE, which may have occurred during shipping. If damage is found, please notify the shipping company and CARVIN immediately.

SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. CARVIN and the shipping company are not liable for any damage caused by improper packing.

SAVE YOUR INVOICE. It will be required for warranty service if needed in the future.

SHIPMENT SHORTAGE. If you find items missing, they may have been shipped separately. Please allow several days for the rest of your order to arrive before inquiring.

RECORD THE SERIAL NUMBER on the enclosed warranty card for your records. Keep your portion of the card and return the portion with your name and comments to us.

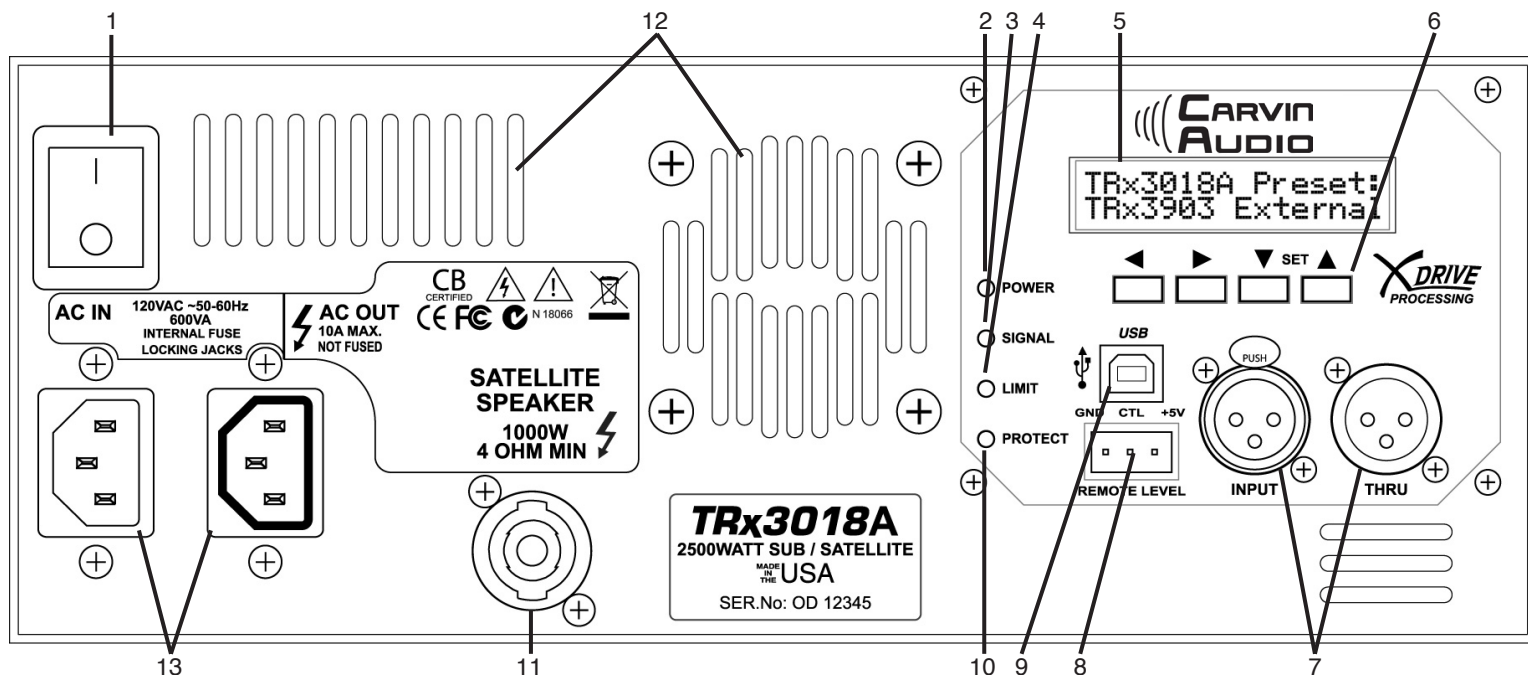
SPECIFICATIONS:

TRx3010A, TRx3018A

System Type:	Active, 2500W X-Drive™ processed
	TRx3010A: Dual 10-inch sub, bass reflex
	TRx3018A: 18-inch sub, bass-reflex
Freq. Response:	TRx3010A: 40 Hz – 1.5kHz (-10dB), 43 Hz – 1kHz (-3dB)
	TRx3018A: 32 Hz – 1.5kHz (-10dB), 38 Hz – 1kHz (-3dB)
Bass Enhance mode:	15Hz < normal
Coverage Pattern:	Omni - Cardioid in 8x arrays
Crossover Frequency:	Active DSP Preset, or 58-160 Hz @24dB/oct.
Power:	3200W 2 cycle pulse peak 2500W 20ms burst (1500W /1000W external) 1875W RMS (1250W, 625W external)
Input Sensitivity:	1.0, 1.2, 1.4, or 2.0 Vrms settings
Maximum Input signal:	+12dBu
Maximum SPL:	TRx3010A: 128dB peak, TRx3018A: 131dB peak
Drivers:	(2x) 10-inch, 2.5-inch VC 18-inch, 4-inch VC
Enclosure:	13-Ply Russian Baltic Birch
Mounting:	TRx3010A: Foot receivers for TRx3210, TRx3010A, top and side 1-3/8-inch Pole Cups
	TRx3018A: Foot receivers for TRx3210, TRx3018A, (3x) 1-3/8-inch Pole Cups
Finish:	Black DuraTec™
Transport:	2 Recessed Handles
Grill:	Black powder coated steel Acoustically Transparent Foam Backing
Connectors:	Signal In/Thru: XLR female/XLR male
External Speaker:	4 pin twist-lock
Remote Level/Mute:	Terminal block
AC IN/OUT:	Locking IEC receptacles
Dimensions	TRx3010A: 15 x 23.5 x 18 in. (381 x 597 x 458 mm)
	TRx3018A: 23.5 x 23.5 x 23.5 in. (597 x 597 x 597 mm)
Net Wt:	TRx3010A: 57 lb (26 kg)
	TRx3018A: 75 lb (37 kg)
Origin:	USA



CONTROL PANEL FEATURES



1. POWER SWITCH (reset)

Push the upper portion of the power switch to turn the system on. If the blue POWER indicator is on but there is no sound or the Protect LED is on, reset, turn the power off for 10 seconds and then turn it back on. If the problem persists, check for: a) lack of Input signal, b) external speaker impedance being too low for the amp, c) bad speaker cable, d) damaged speaker, or e) blocked fan intake.

2. POWER LED

The POWER LED indicates the unit is turned on and functioning properly.

3. SIGNAL LED

The SIGNAL LED indicates there is a signal present at the INPUT XLR.

4. LIMIT LED

The LIMIT LED indicates maximum output of the system is being reached. A flashing LIMIT LED is acceptable, the DSP will reduce peaks to prevent amp clipping. If the LIMIT LED is continuously ON, reduce the level going in to the INPUT XLR. As with any system, reduce the volume if distortion is heard.

5. DIGITAL DISPLAY

The bright green LED DIGITAL DISPLAY will display various information about the system and its settings. When you first turn on the unit, the display will indicate which preset is loaded. To change settings use the UP/DOWN (SET) and LEFT/RIGHT buttons.

6. SETTING BUTTONS (SET)

Use the UP and DOWN (SET) buttons to load different presets for external speaker connections. The LEFT and RIGHT buttons will allow editing of more advanced settings, which are explained in the SETTINGS MENU section of this manual. There are only a few to select from.

7. INPUT/THRU XLR CONNECTORS

Connect the INPUT XLR to a signal source such as the output of a mixer. The THRU XLR can be connected to more TRx3010A's, TRx3018A's or other units.

8. REMOTE LEVEL (MUTE) CONNECTOR

This is a terminal block connector with 5 volt control of volume, typically used in permanent installations. Short the CTL and GND pins to MUTE.

9. USB PORT

The USB port is for updating system firmware such as additional Carvin Audio speaker presets for Carvin Audio speakers connected to the SATELLITE SPEAKER output.

10. PROTECT LED

The PROTECT LED indicates one of the protection circuits has activated and no sound will be heard from the amp. To reset the amp, turn the power off for about 10 seconds, then turn it back ON. If the PROTECT LED stays lit for more than 5 seconds, check your SPEAKER OUTPUT cable connections, speaker impedance or a blocked fan intake.

11. SATELLITE SPEAKER OUTPUT

The SATELLITE SPEAKER output is a Twist-Lock connector for powering external speakers. Presets for several Carvin Audio speakers are pre-programmed. If there is no preset for your speaker, manual settings are available. Speakers can be chained together so long as the total impedance does not go below 4 ohms. If you go below the minimum speaker load, the amp may shut off or the red PROTECT LED may light. To reset the protection circuit, turn off the POWER switch and connect the recommended load.

12. FAN INTAKE / EXHAUST VENTS

The power module features a variable speed fan, which runs silent at low speeds. Make sure the fan intake and exhaust vents are free from blockage at all times.

13. AC IN / AC OUT POWER JACKS & FUSE

Be sure to plug into the proper voltage using AC IN jack. A detachable locking power cord is supplied (for European 230V use a CEE-7 plug cord set). Plug the cord into a grounded 3 prong power source. No attempt should ever be made to use the amp without the ground connected.

The AC OUT connector can be used to power one or two units such as another TRx3010A/TRx3018A, a powered speaker, or any device with 10A or less rating.

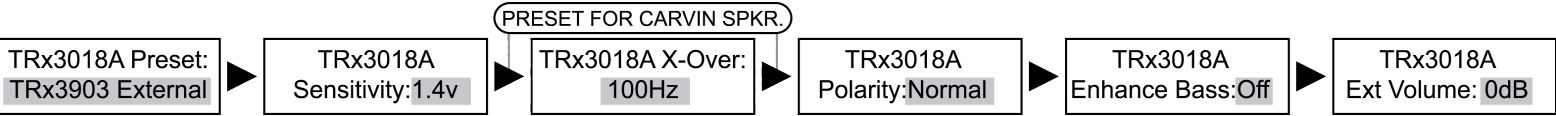
The FUSE is located internally near the AC input. To check or replace, first remove the power cord and then remove the amp module from the speaker enclosure and then remove the front panel to access the fuse. The fuse type is a 250V Slow Blow rated at 15A.

A locking AC cord (Carvin Audio part# 120V16L7, 120V model) is supplied with the amp. However, a standard AC cord can be used. To detach the cord from the amp, press the release lever on the underside of the cord near the amp.

LOCKING AC CORD
120V16L7



SETTINGS MENU



Use the UP and DOWN buttons to change the setting value shown in grey.
To select which setting is changed, use the LEFT and RIGHT buttons.

TRx3010A/TRx3018A Preset: TRx3903 (and other Carvin Audio TRx and SCx speaker models), Variable Crossover or Sub Only.

This selection will load different groups of settings for the TRx3010A/TRx3018A, which are based on the type of speaker to be connected to the SATELLITE SPEAKER output. Optimized settings for several Carvin Audio speakers are pre-programmed and are loaded from memory when those presets are chosen.

Use the “Variable X-Over” preset if you don’t find your speaker on the list or if you prefer to use your own settings.

Use the “SUB ONLY” preset if you are not using the SATELLITE SPEAKER output.

When you change a setting under one preset it will saved to memory for only that preset. Settings for other presets will remain unchanged.

To choose a different preset, first return to the “TRx3010A Preset” or “TRx3018A Preset” screen by using the LEFT/RIGHT buttons, then use the UP/DOWN buttons.

SENSITIVITY: 1.0v, 1.2v, 1.4v, 2.0v (Vrms)

Sets the overall level required from your source to the INPUT XLR to reach maximum volume. A lower setting will increase volume, a higher setting will decrease volume. The factory setting is 1.4v.

X-OVER: (CROSSOVER) 58Hz through 160Hz, OFF, or pre-loaded for Carvin Audio speaker presets.

For the Carvin Audio speaker presets this adjustment screen is bypassed, the optimal settings for these speakers are pre-loaded from system memory.

When using the “Variable X-Over” or “SUB ONLY” preset, this setting is available to adjust the Crossover frequency. This is the highest frequency delivered by the TRx3010A/TRx3018A subwoofer. In the “Variable X-Over” preset this is also the lowest frequency delivered to the SATELLITE SPEAKER output.

Smaller speakers usually require a higher setting because they cannot reproduce the lower frequencies, while larger speakers can be used with a lower frequency setting. A good starting point is to set this to slightly above the lowest frequency available from the external speaker (-3dB rating).

This a 3rd order, 24dB/oct filter. Use the OFF setting if you are using an external crossover device.

POLARITY: NORMAL or REVERSE

The Polarity setting will set the phase of the TRx3010A/TRx3018A subwoofer to Normal or Reverse. If subwoofers are placed at multiple locations in a room or if the external speakers are positioned far away from the TRx3010A/TRx3018A, low frequencies can be affected by phase cancellation. If low frequencies are lacking or sound unusual, try the Reverse setting. The factory setting is Normal.

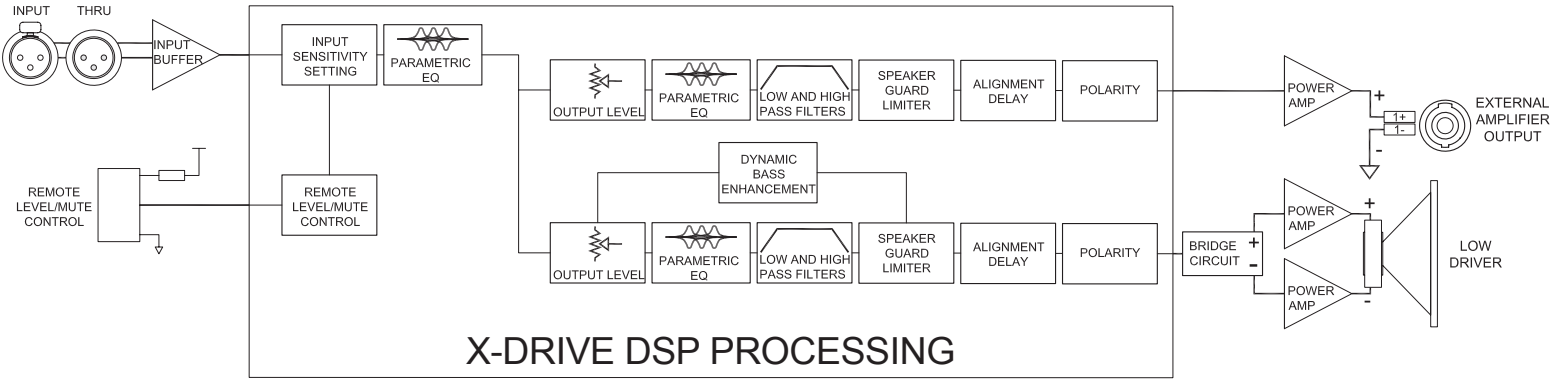
ENHANCE BASS: OFF, ON

The Enhance Bass feature allows lower frequencies to be reproduced by the TRx3010A/TRx3018A. This setting lowers the sub frequency extension by 15Hz without overloading the system. This effect will be reduced at higher volume, however, it adds to the feeling at moderate levels.

EXT. VOLUME: +6dB to -6dB in 1db steps, -9dB, -12dB, MUTE

The External Volume setting will adjust the level of the SATELLITE SPEAKER output. Typically this is set for “0”. This setting can be used to adjust the level between the TRx3010A/TRx3018A subwoofer and the external speaker.

BLOCK DIAGRAM



TRC-A

POWERED COLUMN ARRAY SYSTEMS

- Easy to connect - systems set up in a few minutes
- High level, dynamic sound for live performances
 - Up to 10,000 watts of DSP system power
 - Amazing clarity and intelligibility
- Wide dispersion eliminates multiple stacks
- Designed to solve difficult room acoustics
 - Installation or portable use
 - Small to large venues
 - Made in the USA



TRC200A 2500w

- 2 TRx3903 columns
- TRx3018A sub
- 2 SS7 inter-poles
- 1 PRO1TL
- 1 PRO5TL cables
- CB3903 case



TRC400A 5000w

- 4 TRx3903 columns
- 2 TRx3018A subs
- 4 SS7 inter-poles
- 2 PRO1TL
- 2 PRO5TL cables
- 2 CB3903 cases



TRC600A 10,000w

- 4 TRx3903 columns
- 4 TRx3018A subs
- 4 SS7 inter-poles
- 4 PRO5TL cables
- 2 CB3903 cases

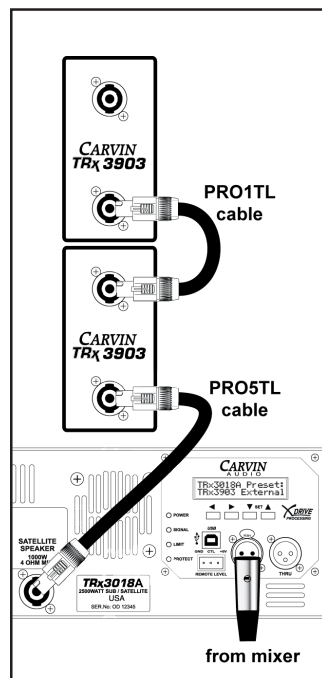
TRC210A 2500w
same as TRC200A,
but with TRx3010A sub
(not TRx3018A)

TRC410A 5000w
same as TRC400A,
but with 2 TRx3010A subs
(not 2 TRx3018A)

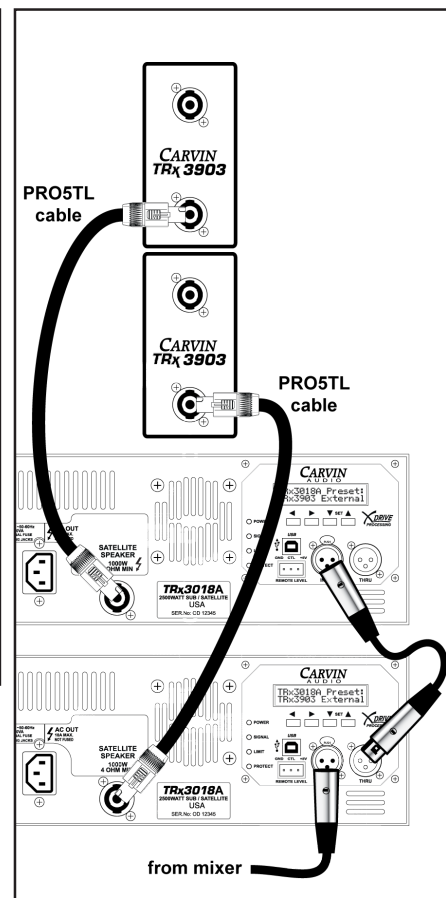
TRC610A 10,000w
same as TRC600A,
but with 4 TRx3010A subs
(not 4 TRx3018A)

EASY SYSTEM SETUPS:

SINGLE SUB



DUAL SUB



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING:

WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl, sink, laundry tub, in a wet basement, near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

POWER SOURCES: The product should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

GROUNDING OR POLARIZATION: Precautions should be taken so that the grounding or polarization is not defeated.

POWER CORD PROTECTION: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs.

SERVICING: The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

FUSING: If your unit is equipped with a fuse receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

SAFETY INSTRUCTIONS (EUROPEAN)

The conductors in the AC power cord are colored in accordance with the following code.

GREEN & YELLOW—Earth BLUE—Neutral BROWN—Live

U.K. MAIN PLUG WARNING: A molded main plug that has been cut off from the cord is unsafe. NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAIN PLUG INTO A POWER SOCKET.

LIMITED WARRANTY

Your Carvin Audio loudspeaker is guaranteed against failure for 5 YEARS unless otherwise stated. Carvin Audio will service and supply all parts at no charge to the customer providing the unit is under warranty. Shipping costs are the responsibility of the customer. CARVIN AUDIO DOES NOT PAY FOR PARTS OR SERVICING OTHER THAN OUR OWN. A COPY OF THE ORIGINAL INVOICE IS REQUIRED TO VERIFY YOUR WARRANTY. Carvin Audio assumes no responsibility for horn drivers or speakers damaged by this unit. This warranty does not cover, and no liability is assumed, for damage due to: natural disasters, accidents, abuse, loss of parts, lack of reasonable care, incorrect use, or failure to follow instructions. This warranty is in lieu of all other warranties, expressed or implied. No representative or person is authorized to represent or assume for Carvin any liability in connection with the sale or servicing of Carvin Audio products.

CARVIN AUDIO SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

MAINTAINING YOUR EQUIPMENT

Avoid spilling liquids or allowing any other foreign matter inside the unit. The panel of your unit can be wiped with a dry or slightly damp cloth in order to remove dust and bring back the new look. As with all pro gear, avoid prolonged use in caustic environments (salt air). When used in such an environment, be sure the amplifier is adequately protected.

SERVICE:

In the USA, please go to www.carvinaudio.com under "SUPPORT" click on "REPAIR INFORMATION"

Outside the USA:

contact your dealer or go to <http://www.carvinaudio.com>

click on "DEALERS" for your nearest service center.

Include a written description of the problem with serial number and date of purchase.



CAUTION
RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL! THIS UNIT CONTAINS HIGH VOLTAGE INSIDE!